

AMENDMENTS TO THE CLAIMS

1. (canceled).
2. (currently amended) ~~A salt-like chemical compound of the formula I as claimed in claim 1;~~
The process according to claim 6 wherein the heterocycle is pyrrolium, indolium or imidazolium.
3. (currently amended) ~~A salt-like chemical compound of the formula I as claimed in claim 1;~~
The process according to claim 6 wherein M is aluminum or boron.
4. (currently amended) ~~A salt-like chemical compound as claimed in claim 1;~~
The process according to claim 6 wherein the heterocycle R² is unsubstituted or substituted by at least one halogen atom, C₁-C₂₀-alkyl, C₁-C₁₀-alkoxy, C₂-C₁₀-alkenyl, C₇-C₂₀-arylalkyl, C₇-C₂₀-alkylaryl, C₆-C₁₀-aryloxy, C₁-C₂₀-haloalkyl, C₆-C₁₄-haloaryl, C₂-C₁₀-alkynyl or C₃-C₂₀-alkylsilyl.
5. (currently amended) ~~A salt-like chemical compound as claimed in claim 1;~~
The process according to claim 6 wherein the heterocycle R² is unsubstituted.
6. (currently amended) A process for preparing compounds of the formula (I):



where

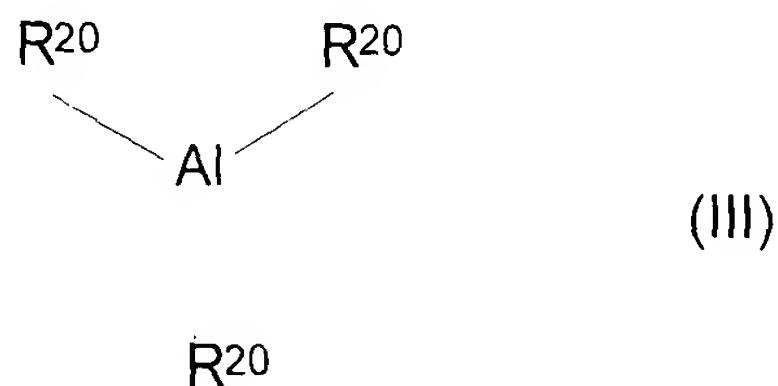
R¹ are identical or different and are each a hydrogen atom, a halogen atom, C₁-C₂₀-alkyl, C₆-C₁₄-aryl, C₁-C₁₀-alkoxy, C₂-C₁₀-alkenyl, C₇-C₂₀-arylalkyl, C₇-C₂₀-alkylaryl, C₆-C₁₀-aryloxy, C₁-C₁₀-haloalkyl, C₆-C₁₀-haloaryl, C₂-C₁₀-alkynyl or C₃-C₂₀-alkylsilyl;

M is an element of main group III of the Periodic Table of the Elements; and

R² is a substituted or unsubstituted heterocycle;

~~as claimed in claim 1, in which compounds of~~ wherein the compounds of formula (I) are salt-like; the process comprising firstly reacting heterocycles R^2 containing elements of main group I or II of the Periodic Table of the Elements ~~are firstly reacted~~ with compounds of the formula $(C_6R^1)_3M$ in a solvent to form compounds of the formula $[(C_6R^1)_3MR^2]^-$ which are subsequently protonated by reaction with a proton donor; ~~where R^1 , M and R^2 are as defined in formula (I).~~

7. (currently amended) A process for preparing a catalyst system comprising contacting at least one organometallic compound (A) of a transition metal; at least one compound of the formula (I) prepared by a process according to claim 6;
~~as claimed in claim 1, if desired~~ optionally an alkyl compound (B) of an element of group III or IV of the Periodic Table of the Elements; and, ~~if desired,~~ optionally at least one support component (C).
8. (canceled).
9. (new) The process according to claim 7 wherein in a first step A, the at least one support component (C) is first reacted with a first alkyl compound (B) of the formula (III),



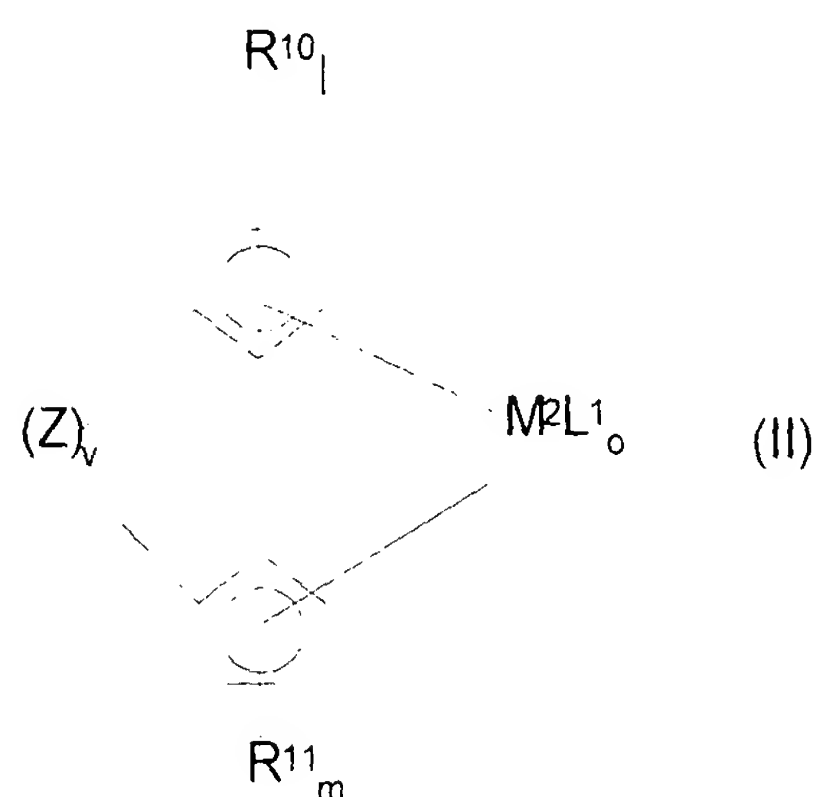
wherein

R^{20} are identical or different and can be a halogen atom, a hydrogen atom or a C_1 - C_{40}

group,

thereby forming a pretreated support wherein the pretreated support is optionally washed and/or dried;

mixing in a further step B the pretreated support with the at least one organometallic compound (A) of a transition metal complex of formula (II),



where

M^2 is a metal of transition group III, IV, V or VI of the Periodic Table of the Elements,

R^{10} are identical or different and are each a hydrogen atom or $Si(R^{12})_3$, where R^{12} are identical or different and are each a hydrogen atom or a C_1 - C_{40} group, or R^{10} is a C_1 - C_{30} group, or two or more radicals R^{10} may be joined to one another in such a way that the radicals R^{10} and the atoms of the cyclopentadienyl ring which connect them form a C_4 - C_{24} ring system which may optionally be substituted,

R^{11} are identical or different and are each a hydrogen atom or $Si(R^{12})_3$, where R^{12} are identical or different and are each a hydrogen atom or a C_1 - C_{40} group, or R^{11} is a C_1 - C_{30} group, or two or more radicals R^{11} may be joined to one another in such a